Page 1

January 08, 2010 1:20:59 PM

D3978-1 Item ID:

Item Name:

Revision ID:

Nut

Start Date: 1/11/2010

Start Qty: 20.00 Required Date: 1/18/2010 Req'd Qty: 20.00

Accept

Setup Start

Stop



Cust Item ID:

Customer:

Draw

Number

Reference:

Process Plan: MF Approvals:

Description

Date: 10-01 - 08. Tooling:

Date:

Draw

Rev.

Plan

Code

Run Start

Stop



QC:

Operation

Date:

SPC (Y/N):

Set Up/

Run Hours

Date:

Qty

Accept

Qty

Reject Number

Insp. Stamp

Work Center ID **Draw Nbr**

Sequence ID/

Revision Nbr

D3978

Α

0.00

0.00

Purchasing

Purchasing

Memo

Issue P/O: 11073

Purchase Part Number: 91853A031 Supplier:McMASTER-CARR Certificate of conformity is required CL 10/01/08



110

100

Packaging Packaging

Receive & Inspect for Damage & Mat'l Certs

0.00

Memo

0.00

Dart Aerospace	Ltd
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W/O:			W	ORK ORDER CHANG	ES			•		
DATE	STEP	PRO	ANGE	Ву	,	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
Part No	:	PAR #:	Fault Cate	egory:	_ NCR: Y	es N	o DQ	A:	Date:	_
	R	esolution:	Disposition	on:	_ QA: N/C	Clos	sed:		Date: _	
NCR:			WORK ORD	ER NON-CONFORMA	ANCE (N	CR)				
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section Action Description Chief Eng	scription Sign &		Verification Section C		Approval Chief Eng	Approval QC Inspector
			Official Elig	Office Eng		<u> </u>				
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January 08, 2010 1:20:59 PM

Page 2

Item ID:

D3978-1

1/11/2010

Accept



Setup Start

Stop



Revision ID:

Start Date:

Item Name:

Nut

Start Qty: 20.00 Req'd Qty: 20.00

Cust Item ID:

Customer:

Reference:

Approvals:

Process Plan:

Date:

Tooling:

Date:

Run Start

Required Date: 1/18/2010

Date:

SPC (Y/N):

Date:

Stop

Sequence ID/ Work Center ID

120

Quality Control

Operation Description

QC6- Inspect dimensions to drawing

Memo

Set Up/ **Run Hours**

Draw Number 2) Sioloil13

Draw Plan Rev. Code

Accept Reject Qty Qty

Reject Number Stamp

countes

130

Packaging

Identify as per dwg & Stock Location:

0.00

0.00

me 10-1-13

Packaging

140

Memo

0.00

Quality Control

Memo

QC21- Final Inspection - Work Order Release

0.00

10/01/14/9) Mr. 114

Dart A	\erospa	ace Ltd
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W/O:			WO	RK ORDER CHANGE	ES				
DATE STEP		PRO	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
							;		
Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A :	Date: _	
	Re	esolution:	Disposition	n:	QA: N/C C	closed:		Date: _	
NCR:		,	WORK ORDE	R NON-CONFORMA	NCE (NC	R)			
DATE	0750	Description of NC		Corrective Action Section		Verific	cation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date	& Sect	ion C	Chief Eng	QC Inspector

^{• *}H:\fEORMS\Quality Assurance\approved QA\NCRWO RevE

Picklist Print

January 08, 2010 1:20:58 PM

Work Order ID: 55182

Parent Item:

D3978-1

Parent Item Name:

Nut

Comments:

IPP RevA: New issue DD verified by:EC

Start Date: 1/11/2010

Qty

Required Date: 1/18/2010

Start Qty: 20.00

Required Qty: 20.00

Component Item ID/ Item Name

Replacement Mfg/ Item ID

Purch

Purchased

Bin Primary Item Location

No

Last Location

Route Seq ID

110

Unit of Measure

Each

Qty on Hand

0.0000

Remaining **Qty To Pick**

Date Issued Issued

Status

Page 1

91853A031

20.0000

MF 10-1-13

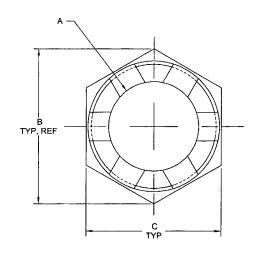
Nut

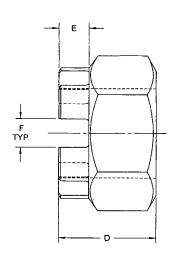
Dart Aerospace

W/O:	-		\\(()	ORK ORDER CHANGI	=6				
DATE	STEP	PRO	OCEDURE CHA		By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
Part No	•	PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A:	Date:	
	R	esolution:	Dispositio	n:	QA: N/C C	losed:		Date:	
NCR:			WORK ORD	ER NON-CONFORMA	NCE (NCI	₹)			
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section Action Description Chief Eng	Section B ption Sign & Date		cation on C	Approval Chief Eng	Approval QC Inspector
			July 2 mg	Shift Eng					

H:\fFORMS\Quality Assurance\approved QA\NCRWO RevE

SPECIFICATION CONTROL DRAWING





D3978-1 NUT (CASTELLATED), UNC

DART P/N	A	В	С	D	E	F	MATERIAL	WEIGHT (lbs)	SUPPLIER	SUPPLIER P/N
D3978-1	3/8-16 UNC	0.65	0.56	0.41	0.13	0.12	18-8 STAINLESS STEEL	0.02	McMASTER-CARR	91853A031

Α	NEW IS	SUE			MB	09.07.13		
REV.			1	DESCRIPTION	BY	DATE		
DESIGN		ļi .	DART AEROSPACE LTD					
DRAWN			,	HAWKESBURY, ONTARIO, CANADA				
CHECK	ŒD	A	วร	DRAWING NO.		REV. A		
MFG. A	PPR.	Z	\sim	D3978		SHEET 1 OF 1		
APPRO	OVED	77	\mathcal{F}	TITLE		SCALE		
DE API	PR.		[-	NUT (CASTELLATED), UN(C NTS		
DATE	09.0	7.13	1	COPYRIGHT © 2009 BY DART A THE DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUFFLIED NOT TO BE USED FOR MAY PURPOSE OR COPED OR COMMUNIC MINITED REPRESENTS HERMOLOGICAL MINITED REPRESENTS HER	TED TO ANY OT	S CONDITION THAT IT IS		

NOTES:
1) MATERIAL: SEE TABLE
2) FINISH: NONE
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: NONE
7) WEIGHT: SEE TABLE

Dart Aerospace Ltd

W/O:			W	ORK ORDER CHANG	ES				
DATE	STEP	PRO	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
				·					
- Filling and									
	i								1
Part No	:	PAR #:	Fault Cate	gory:	NCR: Yes	No DQ	A:	Date: _	
	R	esolution:	Dispositio	n:	_ QA: N/C CI	osed:		Date: _	
NCR:	*		WORK ORD	ER NON-CONFORMA	NCE (NCF	R)			
DATE	STEP	Description of NC		Section B Verific			Approval	Approval	
DATE	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign 8 Date	Secti		Chief Eng	QC Inspector
								-	
1	1	1	1		1			1	

McMASTER-CARR

200 Aurora Industrial Parkway Aurora OH 44202 330-995-5500 cle.sales@mcmaster.com Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada

\$7.59

\$159.39

Sales Tax: Total: Purchase Order PO11073

McMaster-Carr Number 5683739-02

A11

Page 1 of 1

01/08/2010

Ordered Shipped Description Line 92356A662 18-8 Stainless Steel Round Head Square Neck 20 2 - 716 - 07 24 - 02 A662 15 PK Carriage Screw, 3/8-16 Thread, 10" Length, **Packs** Packs of 1 EA/PK Unit Price: \$6.04 \$90.60 Extended Price: 20 18-8 Stainless Steel Stotted Hex Nut, Style B, 20 91853A031 2 - 700 3/8"-16 Thread Size, 9/16"-W, 13/32" Overall H, Packs Packs of 1 Unit Price: \$3.06 Extended Price: \$61.20 Shipped separately from our Chicago warehouse on 01/08 1 Left-Hand Thread High-Speed Steel Tap, 2584A91 Bottoming, 1-1/8"-7 NC, H4 Pitch Diameter, 4 Each Flute 5 92356A662 18-8 Stainless Steel Round Head Square Neck 20 Carriage Screw, 3/8-16 Thread, 10" Length **Packs** Charges for this shipment Merchandise Amount: \$151.80

Dart Aerospace Ltd

Assembly Area

11

Cycle

43

Shelf

115

4 lb: 2 line

FW1WBP23 01/08/2010

12:57/13:37

006

EXP

Documents

2

61000440411074



Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO11073

Purchase Order Date 1/08/10 PO Print Date 1/08/10

Page Number 1 of 1

Unit Drice

Exte

Order From:

VU-MCM001

MCMASTER-CARR SUPPLY CO, P.O. BOX 7690 CHICAGO, IL 60680-7690 US

Contact Name

Vendor Phone

330 995 5500

Vendor Fax

330 995 9600

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607 Net 30

Terms Currency

USD

FOB

Ship To:

DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price
·	All Management and Company of the Co	2584A91LEFT HAND TAP	1/12/10	1.00	Purolator ground	\$69.3400
	•		Yes	Each		
Deliver To	: CNC					
92	356A662	Bolt	1/12/10	20.00	Purolator ground	\$5.3500
			Yes	Each		
		Special Inst:	AS PER DWG B55180 MCMASTER F	D3977 REV. A P/N: 92356A662		
3 91	853A031	Nut	1/12/10	20.00	Purolator ground	\$0.5500
9)	(633A031		Yes	Each		
-	CONFORMITY	Special Inst:	B55182	D3978 REV. A P/N: 91853A031		
CERT	IFICATE OF CONFORMITY				PO	Total:



consent.

Certificate of Conformity or Mater Certification required when applica

Change Nbr:

REQ'D UPON DELIVERY

Change Date:

1/08/10

No substitution or deviation withou